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NOTICE OF ALLOWANCE AND FEE(S) DUE

47396

7500

12/21/2009

HITT GAINES, PC LSI Corporation PO BOX 832570 RICHARDSON, TX 75083

EXAMINER				
LIU, BENJAMIN T				
ART UNIT	PAPER NUMBER			

2893 DATE MAILED: 12/21/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/598,213	08/21/2006	Michelle D. Griglione	GRIGLIONE 5	1211

TITLE OF INVENTION: BIPOLAR JUNCTION TRANSISTOR HAVING A HIGH GERMANIUM CONCENTRATION IN A SILICON-GERMANIUM LAYER AND A METHOD FOR FORMING THE BIPOLAR JUNCTION TRANSISTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/22/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

indicated unless correct maintenance fee notifica	ted below or directed oth	nerwise in Block 1, by (a	a) specifying a new corre	espondence address	; and/or	(b) indicating a separ	rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address			Fe pa	e(s) Transmittal. Thoers. Each additions	is certifi il paper,	cate cannot be used fo	domestic mailings of the r any other accompanying t or formal drawing, must
47396	7590 12/21	/2009	na .			of Mailing or Transn	ticcion
HITT GAINES, PC LSI Corporation PO BOX 832570			I h Sta ade tra	ereby certify that th	is Fee(s	Transmittal is being	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
RICHARDSON	I, TX 75083						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	2	ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/598,213	08/21/2006		Michelle D. Griglione		G	RIGLIONE 5	1211
LAYER AND A METH	OD FOR FORMING TH	E BIPOLAR JUNCTION	T	1			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE		E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300 T	\$0 7		\$1810	03/22/2010
	MINER	ART UNIT	CLASS-SUBCLASS	J			
	NJAMIN T	2893	257-197000 2. For printing on the				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
PLEASE NOTE: Un	lless an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	THE PATENT (print or ty data will appear on the T a substitute for filing ar (B) RESIDENCE: (CIT	patent. If an assign assignment.			cument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 C	orporatio	on or other private grou	ap entity 🗖 Government
4a. The following fee(s) are submitted: lssue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
_ ~ .	atus (from status indicated as SMALL ENTITY statu		☐ b. Applicant is no lo	ngar claiming SMA	II ENT	1TV status See 37 CF	P 1 27(a)(2)
NOTE: The Issue Fee ar	nd Publication Fee (if req	uired) will not be accepte	d from anyone other than				e assignee or other party in
interest as shown by the	records of the United Sta	tes Patent and Trademark	COffice.				
Authorized Signature				Date			
Typed or printed name			Registration No.				
an application. Confider submitting the complete	ntiality is governed by 35 and application form to the cions for reducing this but Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary	1.14. This collection is e depending upon the indi	stimated to take 12 vidual case. Any co	minutes omments	to complete, including on the amount of tim	by the USPTO to process) g gathering, preparing, and the you require to complete thment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/598,213	08/21/2006	Michelle D. Griglione	GRIGLIONE 5 1211	
47396 7	590 12/21/2009		EXAM	INER
HITT GAINES, PC			LIU, BENJAMIN T	
LSI Corporation			ART UNIT	PAPER NUMBER
PO BOX 832570 RICHARDSON, TX 75083			2893	
			DATE MAILED: 12/21/200	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 260 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 260 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/598,213	GRIGLIONE, MICHELLE D.	
Notice of Allowability	Examiner	Art Unit	
	Benjamin Tzu-Hung Liu	2893	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
1. This communication is responsive to <u>arguments submitted</u>	<u>8/31/09</u> .		
2. ☑ The allowed claim(s) is/are <u>19-33</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet. Replacement sheet(s) should be labeled as such in the deponsance of the sheet of the sheet of the sheet. 6. DEPOSIT OF and/or INFORMATION about the deponsance of the sheet of the sheet of the sheet. 	con's Patent Drawing Review (PTO- c. s Amendment / Comment or in the C c.84(c)) should be written on the drawing the header according to 37 CFR 1.121(c sit of BIOLOGICAL MATERIAL n	office action of ngs in the front (not the back) of a). nust be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material /Ngan Ngo/	5. Notice of Informal P. 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e	
Primary Examiner, Art Unit 2893			

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Prior art does not disclose a heterojunction bipolar transistor particularly characterizing a a germanium-enriched region proximate an upper surface of the base and within the silicon- germanium layer as recited in claims 19 and 31.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Tzu-Hung Liu whose telephone number is (571)272-6009. The examiner can normally be reached on Mon-Fri 9:30 AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Davienne Monbleau can be reached on 571 272 1945. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/598,213 Page 3

Art Unit: 2893

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BTL 12/17/2009

/Ngan Ngo/ Primary Examiner, Art Unit 2893